
सीमाज़ीन घुलनशील पाउडर — विशिष्टि
(पहला पुनरीक्षण)

**Simazine Wettable Powders —
Specification**
(*First Revision*)

ICS 65.100.20

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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Pesticides Sectional Committee had been approved by the Food and Agriculture Divisional Council.

Simazine WP is used as herbicide.

Simazine WP is generally manufactured to contain 50 percent (*m/m*) of simazine.

This standard was first published in 1994. In this revision, the standard has been brought out in the latest style and format of the Indian Standards.

In the preparation of this standard, due consideration has been given to the provisions of the *Insecticides Act*, 1988 and the Rules framed thereunder and *Standards of Weights and Measures (Packaged Commodities) Rules*, 1977. However, this standard is subject to the restrictions imposed under the Act and Rules wherever applicable.

The composition of the Committee responsible for the formulation of this standard is listed in Annex B.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed, or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***SIMAZINE WETTABLE POWDERS — SPECIFICATION***(First Revision)***1 SCOPE**

This standard prescribes the requirements and the methods of sampling and test for simazine, wettable powders.

2 REFERENCES

The standards, given below contain provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards.

<i>IS No.</i>	<i>Title</i>
IS 1070 : 1992	Reagent grade water (<i>third revision</i>)
IS 6940 : 1982	Methods of test for pesticides and their formulations (<i>first revision</i>)
IS 8190 (Part 1) : 1988	Requirement for packing of pesticides: Part 1 Solid pesticides (<i>second revision</i>)
IS 10627 : 1983	Methods for sampling of pesticidal formulations
IS 14157 : 2022	Simazine, technical — Specification (<i>first revision</i>)

3 REQUIREMENTS**3.1 Constituents**

3.1.1 The material shall consist of simazine, technical together with suitable carrier(s), stabilizer(s) and other formulants(s).

3.1.2 Simazine, technical is employed in the formulation of this material shall conform to IS 14157.

3.2 Description

The material shall be in the form of a fine, free flowing, white to cream coloured homogeneous powder, free of extraneous impurities or added modifying agent(s). It shall wet readily on mixing with water providing a suspension for suitable use as spray.

3.3 The material shall also comply with the requirements given in Table 1.

3.4 Simazine Content

When determined by the method prescribed in Annex A of IS 14157, the observed form content, percent (*m/m*) of any of the samples shall not differ from the declared nominal value by more than the tolerance given below:

<i>Nominal value, percent</i>	<i>Tolerance, percent</i>	
Upto 9	+10	} of nominal value
Above 9 and below 50	-5 ±5	
50 and above	+5 -3	

4 PACKING

The material shall be packed in mild steel/tin plate/fibre board containers lined with LDPE of thickness not less than 0.062 mm. In addition, the general packing requirements as given in IS 8190 (Part 1) shall be followed.

5 MARKING

5.1 The containers shall be securely closed and shall bear legibly and indelibly the following information:

- Name of the material;
- Name and address of the manufacturer;
- Batch number;
- Date of manufacture;
- Date of expiry;
- Net quantity;
- Nominal simazine content, percent (*m/m*);
- Cautionary notice as worded in the *Insecticides Act*, 1968, and Rules framed thereunder; and
- Any other information required under the *Legal Metrology (Packaged Commodities) Rules*, 2011.

5.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

6 SAMPLING

6.1 When freshly manufactured material in bulk quantity is offered for inspection, representative samples of the material shall be drawn and tested as prescribed in IS 10627 within 90 days of its manufacture. When the material is offered for inspection after 90 days of its manufacture, sampling shall be done as prescribed in IS 10627. However, the criteria for conformity of the material when tested, shall be the limits of tolerances, as applicable over the declared nominal value and given under clause **3.4** of this standard.

7 TESTS

7.1 Tests shall be carried out by the appropriate methods referred to in **3.3**, **3.4** and col 4 of Table 1.

7.2 Quality of Reagents

Unless specified otherwise, pure chemicals and distilled water (*see* IS 1070) shall be employed in tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.

Table 1 Requirements for Simazine, Technical*(Clause 3.2)*

Sl No.	Characteristics	Requirement	Method of Test, Refer to
(1)	(2)	(3)	(4)
i)	Simazine content, percent by mass, <i>Min</i>	Nominal value as declared on the container (<i>see</i> 3.4)	Annex A of IS 14157.
ii)	Sieving material passing through 75 micron, IS Sieve, percent by mass (<i>m/m</i>), <i>Min</i>	98.0	IS 6940
iii)	Suspensibility, percent by mass (<i>m/m</i>), <i>Min</i>	50.0	Annex A
iv)	Acidity (as H ₂ SO ₄), percent by mass (<i>m/m</i>), <i>Max</i>	0.20	IS 6940
	or Alkalinity (as NaOH), percent by mass (<i>m/m</i>), <i>Max</i>	0.20	IS 6940
v)	Wettability, in seconds, <i>Max</i>	120	IS 6940

ANNEX A

[*Clause 3.3 and Table 1, SI No. (iii)*]

DETERMINATION OF SUSPENSIBILITY

A-1 PROCEDURE

A-1.1 Weight accurately in a 100 ml beaker an amount of sample to form a suspension containing 0.5 percent (*m/v*) of simazine. Proceed as described in IS 6940.

A-1.2 Transfer quantitatively the remaining 25 ml portion of suspension and sediment into 250 ml Erlenmeyer flask and proceed as described in IS 14157.

ANNEX B
(Foreword)

COMMITTEE COMPOSITION
Pesticides Sectional Committee, FAD 1

<i>Organization</i>	<i>Representative(s)</i>
Directorate of Plant Protection Quarantine and Storage, Faridabad	DR RAVI PRAKASH (Chairperson)
All India Biotech Association, New Delhi	SHRI SAURABH SINGHAL SHRI SHAH JI DHAR (<i>Alternate</i>)
Central Insecticide Board and Registration Committee, Faridabad	SECRETARY DR VANDANA SETH (<i>Alternate</i>)
Central Insecticide Laboratory, Faridabad	DR ARCHANA SINHA SHRI SUBHASH CHAUDHARY (<i>Alternate</i>)
Consumer Guidance Society of India, Mumbai	SHRI SITARAM DIXIT DR M. S. KAMATH (<i>Alternate</i>)
Crop Care Federation of India, New Delhi	DR J. C. MAJUMDAR
Crop Life India, New Delhi	SHRI ASITAVA SEN MS NIRUPAMA SHARMA (<i>Alternate</i>)
CSIR -Indian Institute of Toxicology Research, Lucknow	DIRECTOR DR SHEELENDRA P. SINGH
FMC India Pvt. Limited, Bengaluru	SHRI CHIRAG PATEL
Food Safety and Standards Authority of India, New Delhi	ADVISOR (STANDARDS)
Indian Agricultural Research Institute, New Delhi	DIRECTOR
Indian Institute of Packaging, Mumbai	DR TANWEER ALAM
Indian Pest Control Association, New Delhi	SHRI UDAYAN GHOSH
Institute of Pesticide Formulation Technology, Gurgaon	DR M. VAIRAMANI
IDMA Laboratories Limited, Chandigarh	DR INDRA RAI
Ministry of Agriculture, Department of Agriculture, Chennai	JOINT DIRECTOR OF AGRICULTURE (RES) DEPUTY DIRECTOR LAB (<i>Alternate</i>)
National Centre for Integrated Pest Management, New Delhi	DR SUMITRA ARORA
National Institute of Plant Health Management, Hyderabad	DR MAHESH SAINI MS T. SRIDEVI (<i>Alternate</i>)
Pesticide Manufacturers and Formulators Association of India (PMFAI), Mumbai	DR ARCHANA SRIVASTAVA DR UDAY KUMAR (<i>Alternate</i>)
Regional Pesticides Testing Laboratory, Chandigarh	SHRI V. VASU

<i>Organization</i>	<i>Representative(s)</i>
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In Personal Capacity (263, Sector 28, Faridabad – 121008,)	MR VIPIN SAINI
BIS Directorate General	SHRIMATI SUNEETI TOTEJA, SCIENTIST ‘F’/SENIOR DIRECTOR AND HEAD (FOOD AND AGRICULTURE) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary
SHRI KULDEEP MITTAL
SCIENTIST ‘B’/ASSISTANT DIRECTOR
(FOOD AND AGRICULTURE), BIS

Bureau of Indian Standards

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This Indian Standard has been developed from Doc No.:FAD 01 (19557).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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